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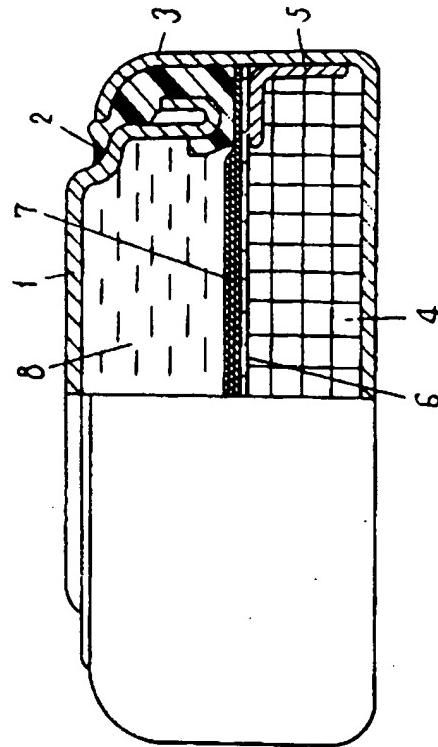
APPLICATION DATE : 30-11-84  
APPLICATION NUMBER : 59253136

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TITLE : ZINC ALKALINE BATTERY



ABSTRACT : PURPOSE: To obtain a zinc alkaline battery having low environmental pollution to decrease mercury content without decreasing corrosion resistance of a negative zinc by using gelled negative zinc obtained by adding zinc powder in a gelled alkaline electrolyte in which mercuric oxide powder is dispersed to amalgamate the surface of the zinc powder.

CONSTITUTION: Zinc powder is added to a gelled alkaline electrolyte in which mercuric oxide powder is dispersed to amalgamate the surface of the zinc powder with mercuric oxide powder. This amalgamated zinc negative electrode 8 is used. For example, sodium polyacrylate is added to 40wt% potassium hydroxide and they are stirred to obtain a gelled alkaline electrolyte. Mercuric oxide powder having a mean particle diameter of 15 $\mu\text{m}$  is added and dispersed by stirring. Zinc powder having a mean particle diameter of 150 $\mu\text{m}$  is added to the gelled alkaline electrolyte and stirred until the surface of zinc powder is amalgamated. By this process, the gelled zinc negative electrode 8 is formed.

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